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## FIGURE 1

LOCUS HSTGFB3M 2574 bp RNA PRI 12-SEP-1993  
DEFINITION Human mRNA for transforming growth factor-beta 3 (TGF-beta 3).  
ACCESSION X14149  
NID g37095  
KEYWORDS growth factor; transforming growth factor; transforming growth factor-beta 3.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 2574)  
AUTHORS Chen, E.Y.  
TITLE Direct Submission  
JOURNAL Submitted (23-MAR-1989) Chen E.Y., Genentech Inc., 460 Pt. San Bruno Blvd., San Francisco, CA 94080, USA  
REFERENCE 2 (bases 1 to 2574)  
AUTHORS Derynck, R., Lindquist, P.B., Lee, A., Wen, D., Tamm, J., Graycar, J.L., Rhee, L., Mason, A.J., Miller, D.A., Coffey, R.J., Moses, H.L. and Chen, E.Y.  
TITLE A new type of transforming growth factor-beta, TGF-beta 3  
JOURNAL EMBO J. 7 (12), 3737-3743 (1988)  
MEDLINE 89091120  
COMMENT See <J03241> for alternative sequence of TGF-beta 3.  
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CDS 254..1492  
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BASE COUNT 629 a 680 c 666 g 599 t

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## FIGURE 1 (cont'd)

### ORIGIN

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121 caccttcttg ccaagcctca gtctttggga tctggggagg ccgcctgggt ttcctccctc  
181 cttctgcacg tctgtggggg tctcttcctc tccaggcctt gccgtcccc tggcctctct  
241 tcccagctca cacatgaaga tgcacttgca aagggctctg gtggtcctgg ccctgctgaa  
301 ctttgccacg gtcagcctct ctctgtccac ttgcaccacc ttggacttcg gccacatcaa  
361 gaagaagagg gtggaagcca ttaggggaca gatcttgagc aagctcaggc tcaccagccc  
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1021 ggatgaccat ggccgtggag atctggggcg cctcaagaag cagaaggatc accacaaccc  
1081 tcatctaate ctcatgatga ttccccaca ccggtctgac aaccggggcc aggggggtca  
1141 gaggaagaag cgggcttttg acaccaatta ctgcttcgac aacttgaggg agaactgctg  
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1381 ttgctgctgt cccagggacc tggagcccct gaccatcctg tactatgttg ggaggacccc  
1441 caaagtggag cagctctcca acatgggtgg gaagtcttgt aaatgtagct gagacccac  
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1981 acgaagacaa agtcccagaa ttgtatctca tactgtctgg gattaagggc aaatctatta  
2041 cttttgcaaa ctgtcctcta catcaattaa catcgtgggt cactacaggg agaaaatcca  
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2161 gaaagggtgg aaatcaaccc tctcctgtct gccctctggg tccctcctct cactctccc  
2221 tcgatcatat ttccccttgg acacttggtt agacgccttc caggtcagga tgcacatttc  
2281 tggattgtgg ttccatgcag ccttggggca ttatgggtct tccccactt cccctccaag  
2341 accctgtgtt catttggtgt tcctggaagc aggtgctaca acatgtgagg cattcgggga  
2401 agctgcacat gtgccacaca gtgacttggc ccagacgca tagactgagg tataaagaca  
2461 agtatgaata ttactctcaa aatctttgta taaataaata tttttggggc atcctggatg  
2521 atttcatctt ctggaatatt gtttctagaa cagtaaaagc cttattctaa ggtg

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## FIGURE 2

FIGURE 2

LOCUS	HSU22431	3678 bp	mRNA	PRI	28-JUN-1995
DEFINITION	Human hypoxia-inducible factor 1 alpha (HIF-1 alpha) mRNA, complete cds.				
ACCESSION	U22431				
NID	g881345				
KEYWORDS	.				
SOURCE	human.				
ORGANISM	Homo sapiens				
	Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE	1 (bases 1 to 3678)				
AUTHORS	Wang, G.L., Jiang, B.H., Rue, E.A. and Semenza, G.L.				
TITLE	Hypoxia-inducible factor 1 is a basic-helix-loop-helix-PAS heterodimer regulated by cellular O2 tension				
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 92 (12), 5510-5514 (1995)				
MEDLINE	95296340				
REFERENCE	2 (bases 1 to 3678)				
AUTHORS	Wang, G.L., Jiang, B.H., Rue, E.A. and Semenza, G.L.				
TITLE	Direct Submission				
JOURNAL	Submitted (09-MAR-1995) Gregg L. Semenza, Center for Medical Genetics, The Johns Hopkins University School of Medicine, 600 N. Wolfe St., Baltimore, MD 21287-3914, USA				
FEATURES	Location/Qualifiers				
source	1..3678				
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CDS	29..2509				
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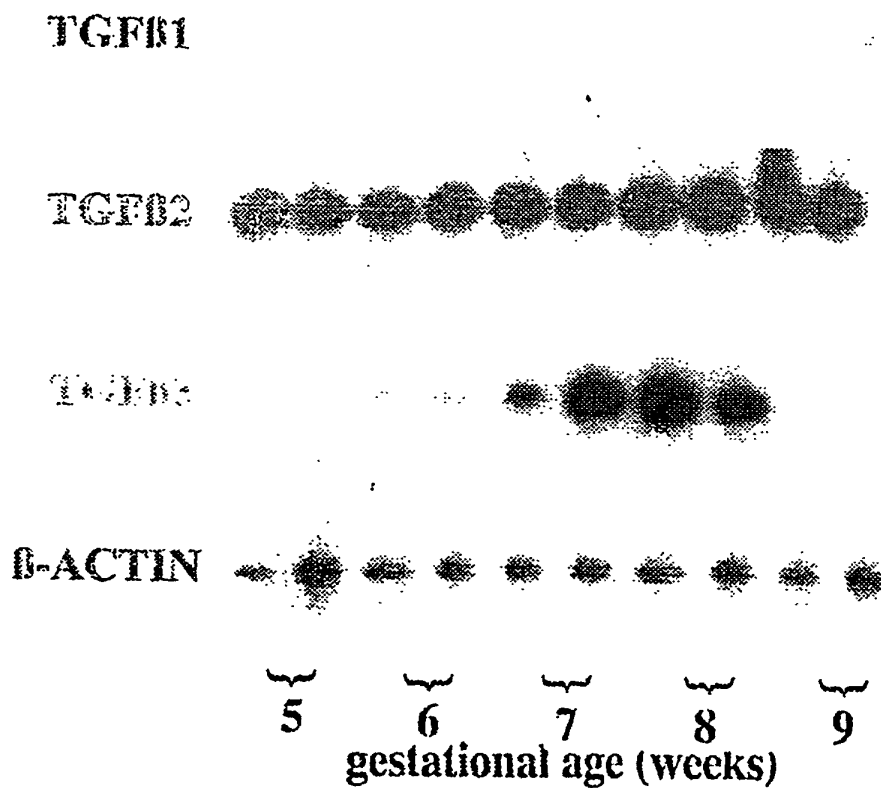
## FIGURE 2 (cont'd)

### ORIGIN

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421  tgtgtttgat  tttactcatc  catgtgacca  tgaggaaatg  agagaaatgc  ttacacacag
481  aaatggcctt  gtgaaaagg  gtaaaagaaca  aaacacacag  cgaagctttt  ttctcagaat
541  gaagtgtacc  ctaactagcc  gaggaagaac  tatgaacata  aagtctgcaa  catggaaggt
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1021  accacagtgc  attgtatgtg  tgaattacgt  tgaattacgt  attattcagc  acgacttgat
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2881  gatcatagcc  agttgaaaaa  tttttacacc  tttttttca  cattttacat  aaataataat
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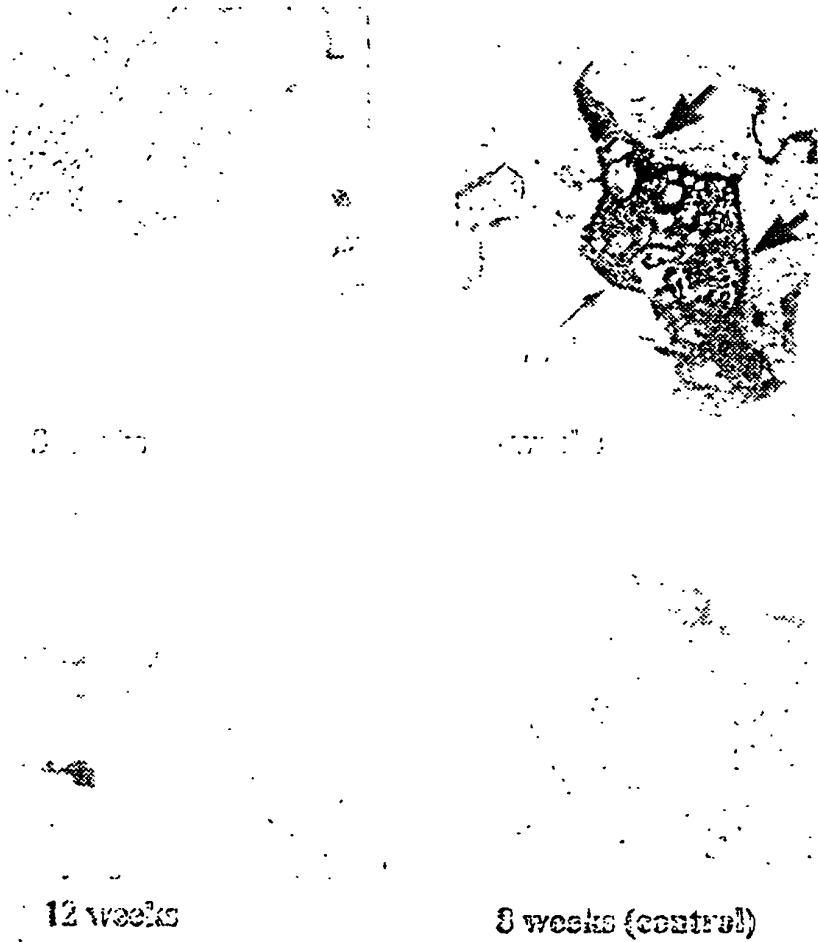
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# FIGURE 3A



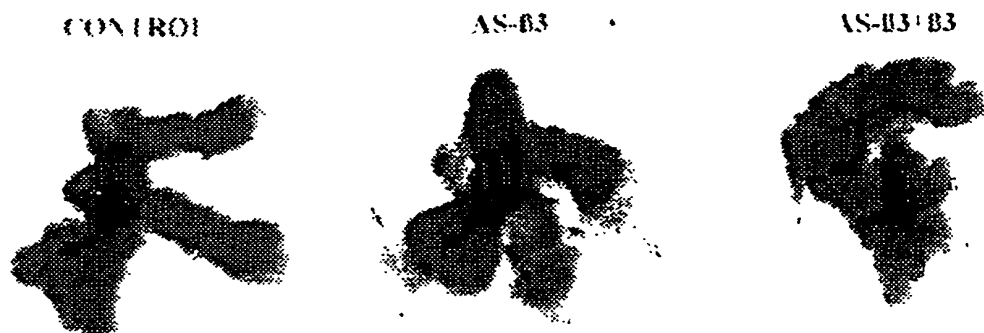
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## FIGURE 3B



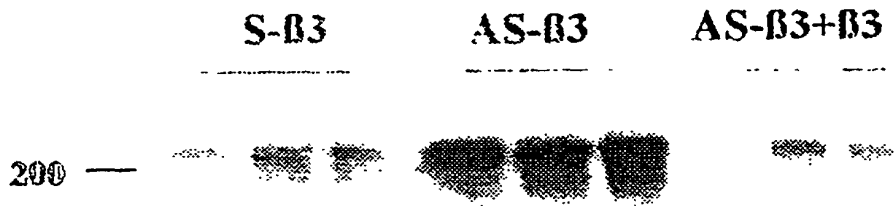
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# FIGURE 4A



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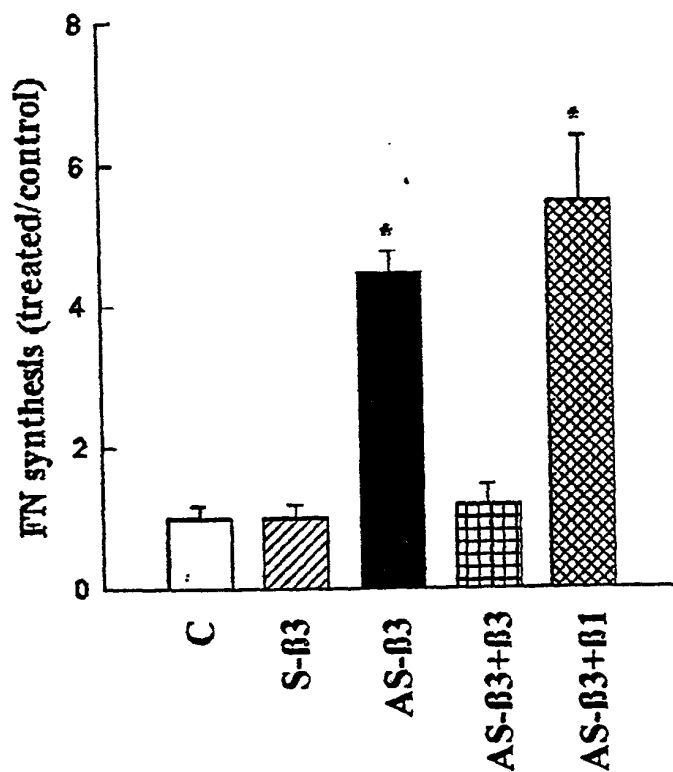
## FIGURE 4B





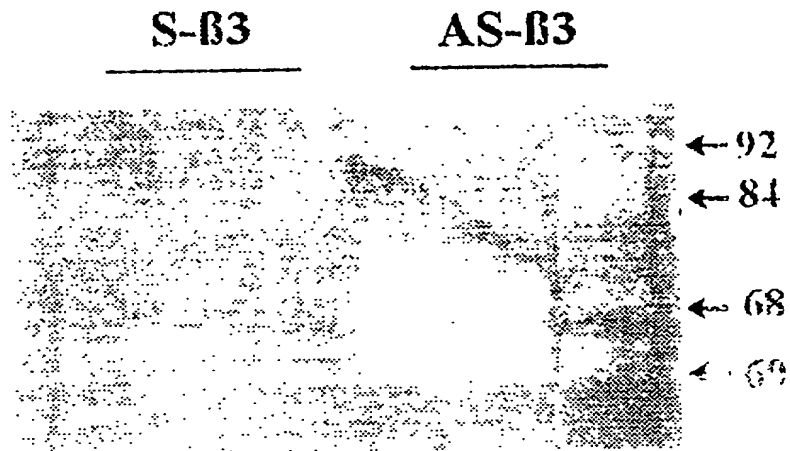
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# **FIGURE 4C**



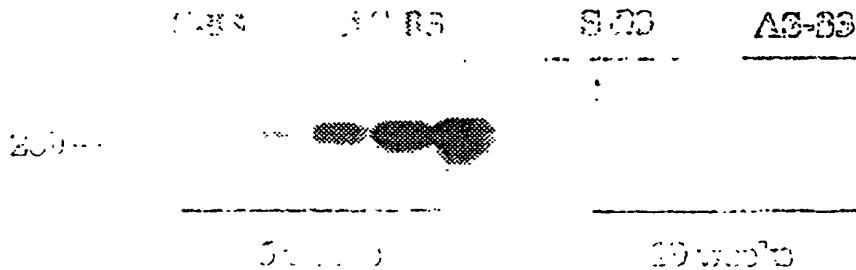
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# FIGURE 4D



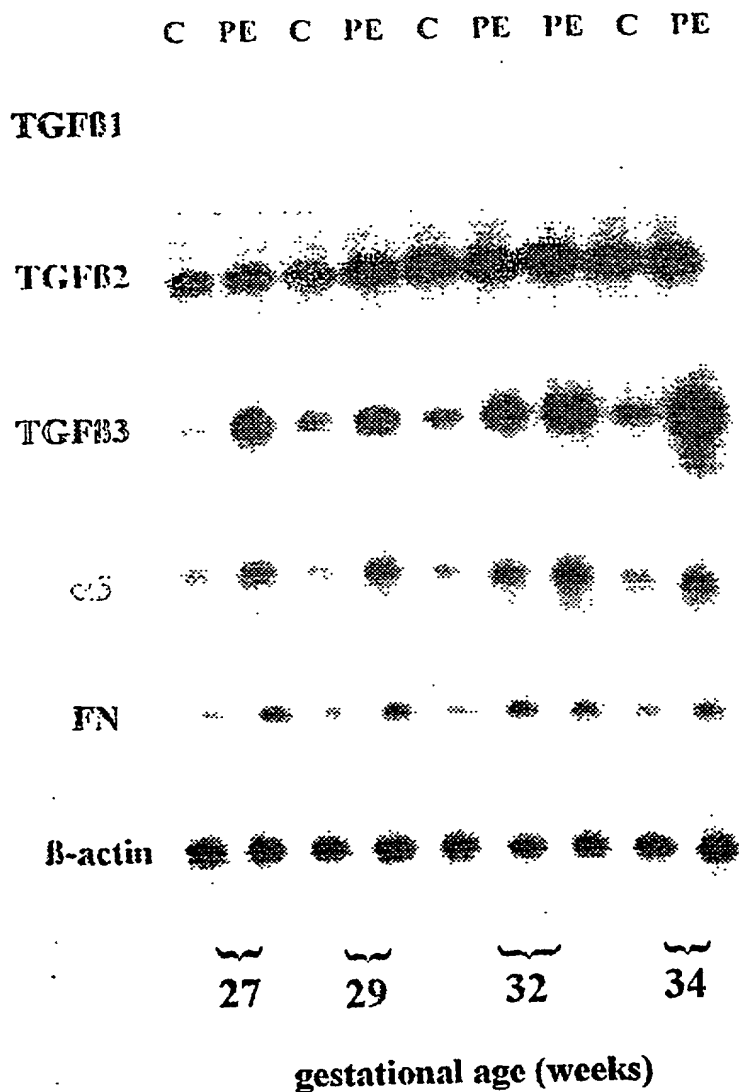
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# FIGURE 4E



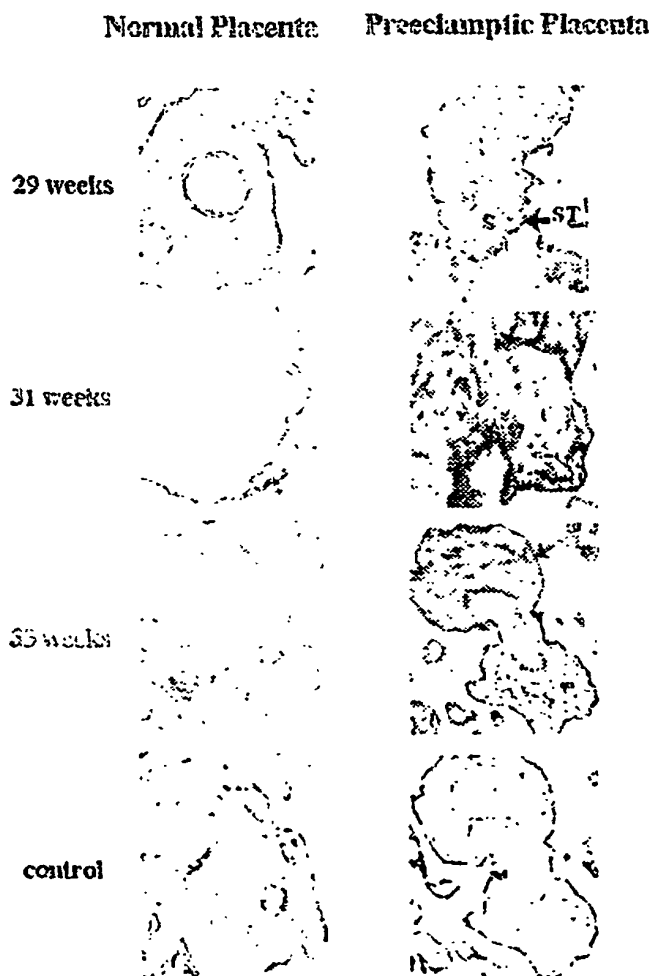
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# **FIGURE 5A**



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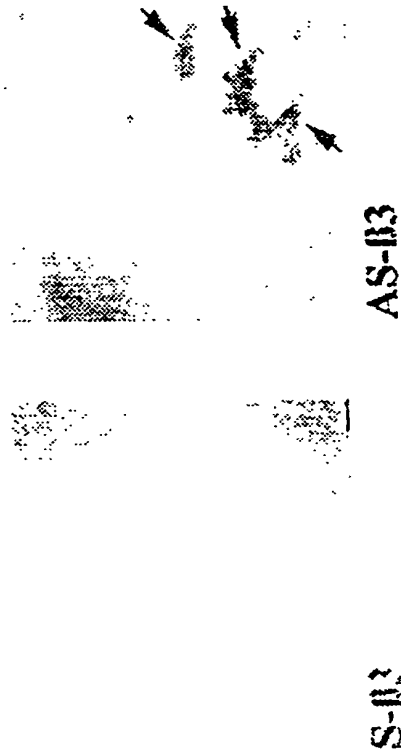
## FIGURE 5B



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**FIGURE 6A**

**Preeclamptic placenta**

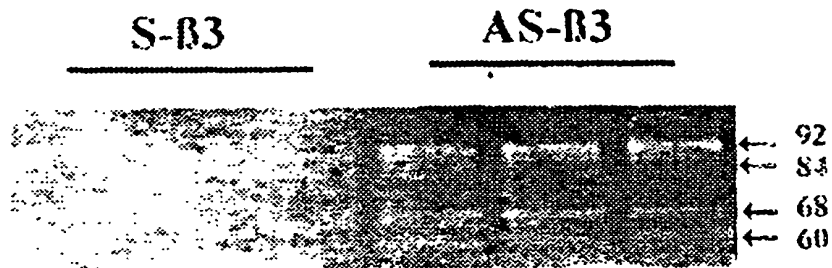


**Normal placenta**



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# FIGURE 6B



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# FIGURE 6C

S-β3

AS-β3



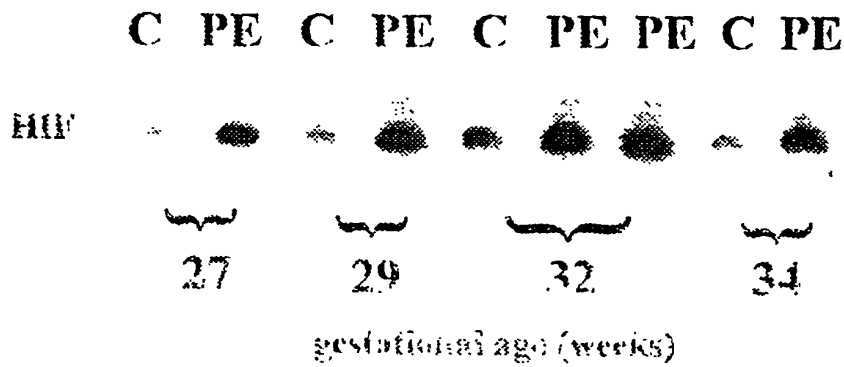


# FIGURE 7A

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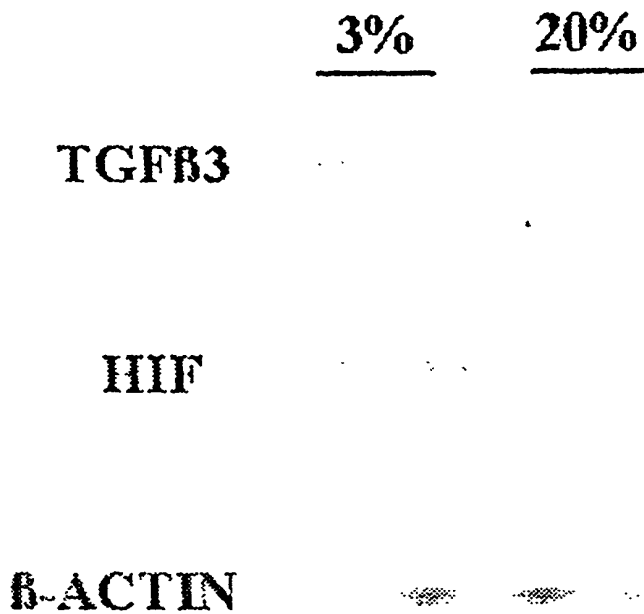
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# **FIGURE 7B**



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# FIGURE 8



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# FIGURE 9

20% O<sub>2</sub>

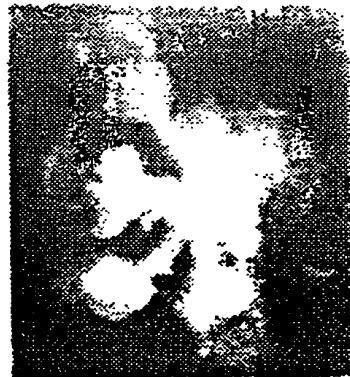


25X



50X

3% O<sub>2</sub>



25X



50X

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# FIGURE 10

